

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Guido Stagi Farms

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT OF 1930, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SUNFLOWER

'GSF-1'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of September in the year of our Lord one thousand nine hundred and eighty.

Attest:

Edward K. Lee
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

W. B. Bly
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY GSF-1		1b. VARIETY NAME GSF-1		FOR OFFICIAL USE ONLY PV NUMBER 7900022	
2. KIND NAME SUNFLOWER		3. GENUS AND SPECIES NAME HELIANTHUS ANNUUS		FILING DATE 12-6-78	TIME 2:30 P.M.
4. FAMILY NAME (BOTANICAL) COMPOSITAE		5. DATE OF DETERMINATION OCTOBER 1978		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 12-6-78 7/9/80
6. NAME OF APPLICANT(S) GUIDE STAGI FARMS		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 9357 HICKORY LANE, STOCKTON, CALIF. 95212		8. TELEPHONE AREA CODE AND NUMBER 209-957-8951 office 209/931-4503	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) PARTNERSHIP			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:
**ROBERT STAGI
8980 MARLTON CT.
STOCKTON, CALIF 95212**

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☒ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

11-24-78

(DATE)

Robert Stagi
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

guido stagi farms 7900022

8980 Maranon Ct.
Stockton, CA 95212

Telephone: 957-4237

EXHIBIT A

Origin and Breeding History

GSF-1 originated from plant selections out of Black Manchurian (an open pollinated variety) in 1971. Selection was based on seed size. Four successive generation head rows were grown at Stockton, California, and only those lines with high percentage of jumbo seed was saved. (Jumbo seed is seed that will not pass through a 26 x 64 screen size) GSF-1 has maintained an average 80 to 90% jumbo seed for the past three years (1976 through 1978) as compared to Black Manchurian, which has averaged 35 to 45% jumbo seed in comparative trials over the same three year period.

STATEMENT OF STABILITY

Sunflower (GSF-1)

Spplication #7900022

In the last three successive generations, we have noted no variations in GSF-1 from that described in the objective description form. Therefore, we believe GSF-1 is stable for these characteristics and will remain so when reproduced.

We also believe that Guido Stagi Farms of Stockton, California, is the sole, original and first breeder of GSF-1 Sunflower.

REVISED EXHIBIT B

Novelty Statement

GSF-1 most closely resembles Black Manchurian with the exception of the following characteristics:

1. GSF-1 is approximately 48 cm taller than Black Manchurian.
2. GSF-1 head size is approximately 15 cm wider than Black Manchurian.
3. The 100 seed weight of GSF-1 averages 11.5 grams heavier than Black Manchurian.
4. GSF-1 produces a higher percentage of large seed than does Black Manchurian.

1976-1978 Comparative Trials

	Ht. - cm		Head Dia-cm		100 seed wt. - gms	
	<u>Blk Man.</u>	<u>GSF-1</u>	<u>Blk Man.</u>	<u>GSF-1</u>	<u>Blk Man.</u>	<u>GSF-1</u>
<u>1976</u>						
I	239	283	335	355	13.9	26.0
II	243	283	331	351	13.5	25.1
III	241	280	331	350	12.9	25.0
IV	242	278	329	355	13.5	25.0
<u>1977</u>						
I	246	310	335	350	11.5	23.0
II	246	310	341	352	11.0	21.3
III	249	321	341	340	11.8	22.2
IV	249	306	341	345	11.3	22.7
<u>1978</u>						
I	238	273	334	351	12.4	24.7
II	237	288	336	354	12.5	25.1
III	237	273	333	351	13.1	24.0
IV	237	275	333	346	12.6	24.0
	<u>242 cm</u>	<u>290 cm</u>	<u>335 cm</u>	<u>350 cm</u>	<u>12.5 gms</u>	<u>24.0 gms</u>

GSF-1
Difference 48 cm taller

GSF-1
15 cm wider

GSF-1
11.5 gms heavier

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1976 - 1978 COMPARATIVE TRIALS

Percent of seed from 100# random samples larger than a 26 x 64 screen size.

<u>1976</u>	<u>Black Manchurian</u>	<u>GSF-1</u>
Rep. I	29.8%	77.3%
Rep. II	32.3	70.8
Rep. III	29.9	79.3
Rep. IV	38.6	80.2
<u>1977</u>		
Rep. I	39.6%	81.3%
Rep. II	45.3	85.6
Rep. III	38.7	93.2
Rep. IV	35.1	90.1
<u>1978</u>		
Rep. I	34.3%	82.7%
Rep. II	35.4	85.5
Rep. III	37.6	90.3
Rep. IV	<u>44.9</u>	<u>84.4</u>
Three Year Average	36.8%	83.4%

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(SUNFLOWER)

OBJECTIVE DESCRIPTION OF VARIETY
SUNFLOWER (*HELIANTHUS ANNUUS*)

NAME OF APPLICANT(S) GUIDO STAGI FARMS	VARIETY NAME OR TEMPORARY DESIGNATION GSF -1
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) 9357 Hickory Lane Stockton, CA 95212	FOR OFFICIAL USE ONLY PVPO NUMBER 79 000 2 2

Place numbers in the boxes (e.g.) for the characters that best describe typical plants of this variety. The symbol ▲ indicates decimal.

COMPARISON VARIETIES

NON-OIL: 0 = ARROWHEAD 2 = MINGREN 3 = SUNDAY
OIL: 4 = PEREDOVIK 5 = KRASNODARETS 6 = OTHER Black Manchurian

1. CLASS:

1 = OIL TYPE 2 = NON-OIL TYPE (confectionery)

2. MATURITY:

<input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="5"/> NO. OF DAYS TO HEAD FIRST VISIBLE (from emergence)	<input type="text" value="1"/> <input type="text" value="7"/> <input type="text" value="0"/> NO. OF DAYS TO HARVEST RIPENESS (from emergence)
<input type="text" value="--"/> <input type="text" value="--"/> <input type="text" value="--"/> DAYS EARLIER THAN <input type="text" value="--"/>	<input type="text" value="--"/> <input type="text" value="--"/> <input type="text" value="--"/> DAYS EARLIER THAN <input type="text" value="--"/>
HEADING SAME AS <input type="text" value="6"/>	MATURITY SAME AS <input type="text" value="6"/>
<input type="text" value="1"/> <input type="text" value="8"/> DAYS LATER THAN <input type="text" value="1"/>	<input type="text" value="2"/> <input type="text" value="5"/> DAYS LATER THAN <input type="text" value="1"/>

3. HEIGHT:

<input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="0"/> cm TALL AT HARVEST RIPENESS	<input type="text" value="--"/> <input type="text" value="--"/> <input type="text" value="--"/> cm SHORTER THAN <input type="text" value="--"/>
	SAME AS <input type="text" value="--"/>
	<input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="8"/> cm TALLER THAN <input type="text" value="6"/>

4. STEM:

<input type="text" value="1"/> <input type="text" value="8"/> <input type="text" value="7"/> LENGTH OF INTERNODE AT HARVEST RIPENESS	<input type="text" value="4"/> <input type="text" value="0"/> NUMBER OF LEAVES
<input type="text" value="--"/> <input type="text" value="--"/> <input type="text" value="--"/> CM. SHORTER THAN <input type="text" value="--"/>	<input type="text" value="--"/> <input type="text" value="--"/> <input type="text" value="--"/> FEWER LEAVES THAN <input type="text" value="--"/>
SAME AS <input type="text" value="--"/>	SAME AS <input type="text" value="--"/>
<input type="text" value="0"/> <input type="text" value="2"/> <input type="text" value="7"/> CM. LONGER THAN <input type="text" value="6"/>	<input type="text" value="1"/> <input type="text" value="3"/> MORE LEAVES THAN <input type="text" value="1"/>

BRANCHING: 1 = NO BRANCHING 2 = BASAL BRANCHING
3 = TOP BRANCHING (with central head) 4 = FULLY BRANCHED (without central head)

COLOR OF GROWING POINT: 1 = GREEN 2 = YELLOW

5. LEAVES (Midstem at flowering):

3 7 0 CM. BLADE LENGTH

3 7 0 CM. BLADE WIDTH

CM. SHORTER THAN

CM. NARROWER THAN

LENGTH SAME AS

WIDTH SAME AS

COMPARISON
VARIETYCOMPARISON
VARIETY

1 1 0 CM. LONGER THAN

1 3 0 CM. WIDER THAN

2 WIDTH: LENGTH RATIO: 1 = NARROWER THAN LONG 2 = EQUAL 3 = WIDER THAN LONG

1 LEAF SHAPE: 1 = CORDATE 2 = OTHER

2 LEAF APEX: 1 = ACUMINATE 2 = OTHER Acute

2 LEAF BASE: 1 = AURICULATE 2 = TRUNCATE

3 LEAF MARGIN: 1 = ENTIRE 2 = FINELY CRENATE 3 = COARSELY CRENATE 4 = OTHER

2 DEPTH OF MARGIN INDENTATIONS: 1 = SHALLOW 2 = INTERMEDIATE 3 = DEEP

3 ATTITUDE: 1 = ERECT 2 = ASCENDING 3 = HORIZONTAL 4 = DESCENDING

2 SURFACE: 1 = SMOOTH 2 = CRINKLED (ridged) 3 = OTHER

2 COLOR: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = BROWN

2 MARGIN COLOR: 1 = GREEN 2 = YELLOW

6. HEAD AT FLOWERING:

2 RAY FLOWERS: 1 = ABSENT 2 = PRESENT

1 RAY FLOWER COLOR: 1 = YELLOW 2 = SULFUR YELLOW 3 = ORANGE YELLOW 4 = OTHER

1 DISK FLOWER COLOR: 1 = YELLOW 2 = RED 3 = PURPLE

1 ANTHOCYANIN IN STIGMAS: 1 = ABSENT 2 = PRESENT

2 POLLEN COLOR: 1 = WHITE (colorless) 2 = YELLOW

1 PAPPUS: 1 = GREEN 2 = RUST (red)

8 7 0 MM. RAY LENGTH

2 3 0 MM. RAY WIDTH

8 0 MM. SHORTER THAN

3 0 MM. NARROWER THAN

SAME AS

SAME AS

COMPARISON
VARIETYCOMPARISON
VARIETY

2 0 MM. LONGER THAN

3 0 MM. WIDER THAN

7. HEAD AT SEED MATURITY:

3 5 0

CM. DIAMETER

CM. NARROWER THAN

SAME AS

COMPARISON VARIETY

1 5 0

CM. WIDER THAN

6

2

RECEPTACLE SHAPE: 1 = FLAT 2 = CONVEX 3 = CONCAVE

4

HEAD ATTITUDE: 1 = VERTICAL (*erect*) 2 = ASCENDING 3 = HORIZONTAL 4 = DESCENDING

8 3 1

NO. OF SEEDS PER HEAD

SEEDS / HEAD LESS THAN

SEEDS / HEAD SAME AS

COMPARISON VARIETY

2 2 8

SEEDS / HEAD MORE THAN

6

8. SEEDS:

3

OUTER PERICARP: 1 = CLEAR 2 = STRIPED BLACK 3 = NEARLY SOLID BLACK

1

MIDDLE PERICARP: 1 = WHITE 2 = SOLID PURPLE

1

INNER PERICARP (*seed coat*): 1 = NO COLOR 2 = BROWNISH BLACK

5

STRIPES: 1 = ABSENT 2 = EVEN BLACK & WHITE STRIPES 3 = BROAD BLACK & NARROW WHITE

4 = BLACK WITH NARROW DARK-GRAY STRIPING

5 = OTHER Broad Grey & Narrow White

1

MOTTLING: 1 = ABSENT 2 = PRESENT

2

SHAPE: 1 = OVATE 2 = OBOVATE (*shield*) 3 = NARROWLY OBOVATE 4 = OBLONG 5 = ELLIPTIC

2

SHAPE (*cross-section*): 1 = NOT CURVED 2 = CURVED

1 7 0

MM. LENGTH

2 4 0

GM. / 100 SEED

MM. SHORTER THAN

GM. LIGHTER THAN

SAME AS

COMPARISON VARIETY

SAME AS

COMPARISON VARIETY

0 5 0

MM. LONGER THAN

6

1 1 5

GM. HEAVIER THAN

6

9 6 4

% HELD ON 7.9 MM. (20/64) ROUND-HOLE SCREEN

% LESS THAN

SAME AS

COMPARISON VARIETY

7 6 0

% MORE THAN

6

GSF-1 7900022

9. DISEASE AND INSECTS (0 = Not tested, 1 = Susceptible, 2 = Resistant):

☐ 0 RUST (*Puccinia helianthi*)

GIVE RACES: _____

☐ 0 VERTICILLIUM WILT (*Verticillium dahliae*)☐ 0 DOWNY MILDEW (*Plasmopara halstedii*)☐ 0 WHITE BLISTER RUST (*Albugo tragopogi*)☐ 0 BROOM RAPE (*Orobancha cannis*)

GIVE RACES: _____

☐ 0 EUROPEAN SUNFLOWER MOTH (*H. nebullela*)☐ 0 OTHER (specify) _____☐ 0 SCLEROTINIA WILT (*Sclerotinia sclerotiorum*)☐ 0 LEAF MOTTLE (*V. albo-atrum*)☐ 0 GRAY-MOLD BLIGHT, BUD ROT (*Botrytis cinerea*)☐ 0 CHARCOAL ROT, STEM ROT (*Macrophomina phaseolina*)☐ 0 SUNFLOWER MOTH, N. AMERICAN HEAD MOTH
(*Homoeosoma electellum*)☐ OTHER (specify) _____☐ OTHER (specify) 210. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY. For the following characteristics indicate degree of resemblance by placing in the column marked, D.R., one of the following numbers:
1 = Submitted variety is less, lighter or inferior than comparison variety 2 = Same as 3 = More than, darker, or superior

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Frost resistance	Black Manchurian	2	Leaf attitude	Black Manchurian	2
Lodging resistance	Black Manchurian	2	Head attitude	Black Manchurian	2
Neck or stem strength	Black Manchurian	2	Ray flower color	Black Manchurian	2
Branching type	Non - Branching	2	Seed shape		2
Petiole length	Arrowhead	3	Seed color	Black Manchurian	2
Leaf shape	Arrowhead	2	Seed striping pattern	Black Manchurian	2
Leaf color (green)	Black Manchurian	2	Seed yield	Black Manchurian	3

11. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY*. Not analyzed (Confectionary Use Only)

VARIETY	HULL (%)	PROTEIN (%)	OIL (%)	IODINE NO.	FATTY ACIDS	
					OLEIC (%)	LINOLEIC (%)
Submitted						
Similar						
Name of similar variety						

* Hull, protein and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil

12. COMMENTS:

<u>PV#</u>	7900022
<u>CROP KIND</u>	SUNFLOWER
<u>NAME OF VARIETY</u>	GSF-1
<u>STATUS, ALL OCCS</u>	I
<u>DATE STATUS BEGN</u>	09/11/80
<u>APPLICATION DATE</u>	12/06/78
<u>APPL. FEE RECVD</u>	12/06/78
<u>AMOUNT APPL. FEE</u>	250
<u>SRCH FEE RECVD</u>	12/06/78
<u>AMOUNT SRCH FEE</u>	250
<u>CERT FEE RECVD</u>	07/09/80
<u>AMOUNT CERT FEE</u>	250
<u>CERT. ISSUE DATE</u>	09/11/80
<u>ORIGIN</u>	D
<u>DATE AMENDED</u>	06/10/85
<u>AMENDMENT</u>	

Name of owner changed from Gudio Stagi Farms to Stagi
& Scriven Farms, Inc.

Record: 914

<u>PV#</u>	7900022
<u>CROP KIND</u>	SUNFLOWER
<u>NAME OF VARIETY</u>	GSF-1
<u>APPLICANT(S)</u>	MR. ROBERT STAGI
<u>ADDRESS OF APPLT</u>	P. O. BOX 7874 STOCKTON, CALIFORNIA 95207
<u>STATUS, ALL OCCS</u>	I
<u>DATE STATUS BEGN</u>	09/11/80
<u>APPLICATION DATE</u>	12/06/78
<u>APPL. FEE RECVD</u>	12/06/78
<u>AMOUNT APPL. FEE</u>	250
<u>SRCH FEE RECVD</u>	12/06/78
<u>AMOUNT SRCH FEE</u>	250
<u>CERT FEE RECVD</u>	07/09/80
<u>AMOUNT CERT FEE</u>	250
<u>CERT. ISSUE DATE</u>	09/11/80
<u>ORIGIN</u>	D
<u>DATE AMENDED</u>	06/10/85
<u>AMENDMENT</u>	

Name of owner changed from Guido Stagi Farms to Stagi
& Scriven Farms, Inc.

FELDMAN, WALDMAN & KLINE

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

ATTORNEYS AT LAW

TWENTY-SEVENTH FLOOR RUSS BUILDING

235 MONTGOMERY STREET

SAN FRANCISCO, CALIFORNIA 94104

TELEPHONE (415) 981-1300

TELEX 358791 FWK LAW

SPECIAL TRIAL COUNSEL

e. robert (bob) wallach

SPERRY BUILDING

146-148 WEST WEBER AVENUE

STOCKTON, CALIFORNIA 95202

(209) 943-2004

404 NORTH ROXBURY DRIVE, SUITE 600

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(213) 274-8191

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*A PROFESSIONAL CORPORATION

June 7, 1985

Plant Variety Protection Office
Agricultural Marketing Services
United States Department of Agriculture
Room 500
National Agricultural Library Building
Beltsville, Maryland 20705

Attention: Dr. Ken Evans

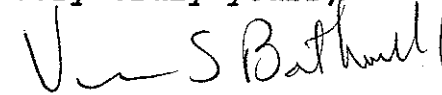
Re: Transfer of Plant Variety Protection
Certificate Number 7900022

Gentlemen:

Enclosed please find the original and one copy of a duly executed and acknowledged Assignment of the above Plant Variety Protection Certificate from Guido Stagi Farms to Stagi & Scriven Farms, Inc., a California corporation. Please record the original Assignment in your official records and return the copy to me, with appropriate filing endorsements, by means of the enclosed envelope. Also enclosed is our check made payable to the Treasurer of the United States in the amount of \$5.00 to cover the recording fee.

Please contact me with any questions.

Very truly yours,



Vern S. Bothwell

VSb:lew
Encl.

cc: Mr. Tom Klein
Mr. Gerald Moffitt

NO. 52050

07/85 10424-0000

Recording Fee, Protection Patent

5.00

AND RETAIN
R RECORDS

52050

FELDMAN, WALDMAN & KLINE, SAN FRANCISCO, CA.

FELDMAN, WALDMAN & KLINE
ATTORNEYS AT LAW
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SAN FRANCISCO, CA. 94104

THE PACIFIC BANK
101 CALIFORNIA STREET
SAN FRANCISCO, CA. 94111

11-4011
1210

52050
52050

DATE	AMOUNT
6/07/85	*****5.00

*****AND NO/100 DOLLARS*****FIVE

Treasurer Of The United States

Matthews

"052050" 121040114 1050 000279"

7900022-Assignment

ASSIGNMENT OF
PLANT PROTECTION PATENT

FOR GOOD AND VALUABLE CONSIDERATION, the undersigned, GUIDO STAGI FARMS, a California general partnership ("Assignor"), hereby assigns, conveys, sells and transfers to STAGI & SCRIVEN FARMS, INC., a California corporation ("Assignee"), all of Assignor's legal and beneficial right, title and interest in, to and under that certain Certificate of Protection (No. 7900022), dated September 11, 1980, issued by the United States Secretary of Agriculture in the name of Assignor, covering GSF-1 Variety Black Manchurian Sunflower Seeds, a copy of which is attached hereto as Exhibit A and incorporated herein by this reference.

Assignor warrants and represents that it has not previously assigned or licensed any interest in the above Certificate to any third party and that the foregoing assignment is made free and clear of all claims, liens, rights or interests of others, including, without limitation, claims of any taxing authorities.

Assignor hereby agrees to defend and indemnify Assignee and hold Assignee free and harmless from and against all costs, expenses (including reasonable attorneys' fees), liabilities and damages arising out of any claims, liens, rights or interests which are asserted by any third party in the above Certificate and which are asserted to have arisen prior to the date of this Assignment.

Assignor hereby agrees to execute and deliver such additional instruments or documents as may be necessary to perfect or record this Assignment or to otherwise carry out the intent of this Assignment.

IN WITNESS WHEREOF, Assignor has executed and delivered

CAT. NO. NN00630
TO 1946 CA (7-82)

(Partnership)

STATE OF CALIFORNIA

COUNTY OF San Joaquin } ss.

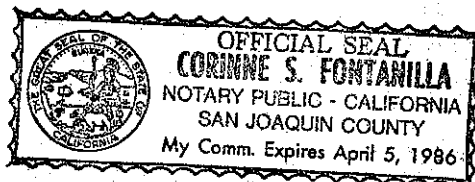
On May 7, 1985 before me, the undersigned, a Notary Public in and for said State, personally appeared Guido Stagi, Robert Stagi and Michael Scriven

Michael Scriven, personally known to me or proved to me on the basis of satisfactory evidence to be the person S who executed the within instrument as of the partners of the partnership that executed the within instrument, and acknowledged to me that such partnership executed the same.
WITNESS my hand and official seal.

Signature

Corinne S. Fontanilla

 **TITLE INSURANCE
AND TRUST**
ATICOR COMPANY



(This area for official notarial seal)

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Guido Stagi Farms

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 2321 ET SEQ.)

SUNFLOWER

'GSF-1'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of September in the year of our Lord one thousand nine hundred and eighty.

Attest:

Edward A. Lusk
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Robert B. Smith
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY GSF-1		1b. VARIETY NAME GSF-1		FOR OFFICIAL USE ONLY PV NUMBER 7900022	
2. KIND NAME SUNFLOWER		3. GENUS AND SPECIES NAME HELIANTHUS ANNUUS		FILING DATE 12-6-78	TIME 2:30 P.M.
4. FAMILY NAME (BOTANICAL) COMPOSITAE		5. DATE OF DETERMINATION October 1978		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 12-6-78 7/9/80
6. NAME OF APPLICANT(S) GUIDE STAGI FARMS		7. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) 9357 HICKORY LANE STOCKTON, CALIF. 95212		8. TELEPHONE AREA CODE AND NUMBER 209/931-4500	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) PARTNERSHIP			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: ROBERT STAGI 8986 MARAUCH ST. STOCKTON, CALIF. 95212					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)

☒ 13B. Exhibit B, Novelty Statement.

☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)

☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a).) (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☒ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

11-24-78
(DATE)

Robert Stagi
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

guido stagi farms 7900022

8980 Maranon Ct.
Stockton, CA 95212

Telephone: 957-4237

EXHIBIT A

Origin and Breeding History

GSF-1 originated from plant selections out of Black Manchurian (an open pollinated variety) in 1971. Selection was based on seed size. Four successive generation head rows were grown at Stockton, California, and only those lines with high percentage of jumbo seed was saved. (Jumbo seed is seed that will not pass through a 26 x 64 screen size) GSF-1 has maintained an average 80 to 90% jumbo seed for the past three years (1976 through 1978) as compared to Black Manchurian, which has averaged 35 to 45% jumbo seed in comparative trials over the same three year period.

1

STATEMENT OF STABILITY

Sunflower (GSF-1)

Sppllication #7900022

In the last three successive generations, we have noted no variations in GSF-1 from that described in the objective description form. Therefore, we believe GSF-1 is stable for these characteristics and will remain so when reproduced.

We also believe that Guido Stagi Farms of Stockton, California, is the sole, original and first breeder of GSF-1 Sunflower.

REVISED EXHIBIT B

Novelty Statement

GSF-1 most closely resembles Black Manchurian with the exception of the following characteristics:

1. GSF-1 is approximately 48 cm taller than Black Manchurian.
2. GSF-1 head size is approximately 15 cm wider than Black Manchurian.
3. The 100 seed weight of GSF-1 averages 11.5 grams heavier than Black Manchurian.
4. GSF-1 produces a higher percentage of large seed than does Black Manchurian.

1976-1978 Comparative Trials

	Ht. - cm		Head Dia-cm		100 seed wt. - gms	
	Blk Man.	GSF-1	Blk Man.	GSF-1	Blk Man.	GSF-1
<u>1976</u>						
I	239	283	335	355	13.9	26.0
II	243	283	331	351	13.5	25.1
III	241	280	331	350	12.9	25.0
IV	242	278	329	355	13.5	25.0
<u>1977</u>						
I	246	310	335	350	11.5	23.0
II	246	310	341	352	11.0	21.3
III	249	321	341	340	11.8	22.2
IV	249	306	341	345	11.3	22.7
<u>1978</u>						
I	238	273	334	351	12.4	24.7
II	237	288	336	354	12.5	25.1
III	237	273	333	351	13.1	24.0
IV	237	275	333	346	12.6	24.0
	<u>242 cm</u>	<u>290 cm</u>	<u>335 cm</u>	<u>350 cm</u>	<u>12.5 gms</u>	<u>24.0 gms</u>
	GSF-1 Difference <u>48 cm taller</u>		GSF-1 <u>15 cm wider</u>		GSF-1 <u>11.5 gms heavier</u>	

guido stagi farms

7900022

8980 Maranon Ct.
Stockton, CA 95212

Telephone: 957-4237

1976 - 1978 COMPARATIVE TRIALS

Percent of seed from 100# random samples larger than a 20 x 64 screen size.

<u>1976</u>	<u>Black Manchurian</u>	<u>GSP-1</u>
Rep. I	29.8%	77.3%
Rep. II	32.3	70.8
Rep. III	29.9	79.3
Rep. IV	38.6	80.2
<u>1977</u>		
Rep. I	39.6%	81.3%
Rep. II	45.3	85.6
Rep. III	38.7	93.2
Rep. IV	35.1	90.1
<u>1978</u>		
Rep. I	34.3%	82.7%
Rep. II	35.4	85.5
Rep. III	37.6	90.3
Rep. IV	<u>44.9</u>	<u>84.4</u>
Three Year Average	36.8%	83.4%

Application No. 7900022

FORM APPROVED OMB NO. 40-R 3622

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705EXHIBIT C
(SUNFLOWER)OBJECTIVE DESCRIPTION OF VARIETY
SUNFLOWER (*HELIANTHUS ANNUUS*)

NAME OF APPLICANT(S) GUIDO STAGI FARMS	VARIETY NAME OR TEMPORARY DESIGNATION GSF -1
ADDRESS: Street and No., or R.F.D. No., City, State, and ZIP Code) 9357 Hickory Lane Stockton, CA 95212	FOR OFFICIAL USE ONLY PVPO NUMBER 79 000 2 2

Place numbers in the boxes (e.g. 01819) for the characters that best describe typical plants of this variety. The symbol ▲ indicates decimal.

COMPARISON VARIETIES

NON-OIL 0 - ARROWHEAD 2 - MINGREN 0 - SUNDAY
OIL: 4 - PEREDOVIK 5 - KRASNODARETS 6 - OTHER Black Manchurian

1 CLASS

2 1 - OIL TYPE 2 - NON-OIL TYPE (confectionery)

2 MATURITY:

8 5	NO. OF DAYS TO HEAD FIRST VISIBLE (from emergence)	1 7 0	NO. OF DAYS TO HARVEST RIPENESS (from emergence)
---	DAYS EARLIER THAN	---	DAYS EARLIER THAN
6	HEADING SAME AS	6	MATURITY SAME AS
1 8	DAYS LATER THAN	1	DAYS LATER THAN

3 HEIGHT:

2 9 0	cm TALL AT HARVEST RIPENESS	---	cm SHORTER THAN
		---	SAME AS
0 4 8	cm TALLER THAN	6	

4 STEM:

1 8 7	LENGTH OF INTERNODE AT HARVEST RIPENESS	4 0	NUMBER OF LEAVES
---	CM. SHORTER THAN	---	FEWER LEAVES THAN
	SAME AS	---	SAME AS
0 2 7	CM. LONGER THAN	1 3	MORE LEAVES THAN

1 BRANCHING: 1 - NO BRANCHING 2 - BASAL BRANCHING
3 - TOP BRANCHING (with central head) 4 - FULLY BRANCHED (without central head)

1 COLOR OF GROWING POINT: 1 - GREEN 2 - YELLOW

65 SF-1

7900022

5. LEAVES (Midstem at flowering):

7 0 CM. BLADE LENGTH

3 7 0 CM. BLADE WIDTH

CM. SHORTER THAN

CM. NARROWER THAN

LENGTH SAME AS

COMPARISON
VARIETY

WIDTH SAME AS

COMPARISON
VARIETY

1 0 CM. LONGER THAN

1

1 3 0 CM. WIDER THAN

1

2 WIDTH LENGTH RATIO 1 = NARROWER THAN LONG 2 = EQUAL 3 = WIDER THAN LONG

1 LEAF SHAPE 1 = CORDATE 2 = OTHER

2 LEAF APEX 1 = ACUMINATE 2 = OTHER Acute

2 LEAF BASE 1 = AURICULATE 2 = TRUNCATE

3 LEAF MARGIN 1 = ENTIRE 2 = FINELY CRENATE 3 = COARSELY CRENATE 4 = OTHER

3 DEPTH OF MARGIN INDENTATIONS 1 = SHALLOW 2 = INTERMEDIATE 3 = DEEP

3 ATTITUDE 1 = ERECT 2 = ASCENDING 3 = HORIZONTAL 4 = DESCENDING

2 SURFACE 1 = SMOOTH 2 = CRINKLED (ridged) 3 = OTHER

2 COLOR 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = BROWN

2 MARGIN COLOR: 1 = GREEN 2 = YELLOW

6. HEAD AT FLOWERING:

2 RAY FLOWERS: 1 = ABSENT 2 = PRESENT

1 RAY FLOWER COLOR: 1 = YELLOW 2 = SULFUR YELLOW 3 = ORANGE YELLOW 4 = OTHER

1 DISK FLOWER COLOR: 1 = YELLOW 2 = RED 3 = PURPLE

1 ANTHOCYANIN IN STIGMAS: 1 = ABSENT 2 = PRESENT

2 POLLEN COLOR: 1 = WHITE (colorless) 2 = YELLOW

1 PAPPI: 1 = GREEN 2 = RUST (red)

7 0 MM. RAY LENGTH

2 3 0 MM. RAY WIDTH

8 0 MM. SHORTER THAN

1

3 0 MM. NARROWER THAN

1

SAME AS

COMPARISON
VARIETY

SAME AS

COMPARISON
VARIETY

2 0 MM. LONGER THAN

6

3 0 MM. WIDER THAN

6

GSF-1 7900022

7 HEAD AT SEED MATURITY:

3 5 0 CM. DIAMETER

- - - - CM. NARROWER THAN

SAME AS

1 5 0 CM. WIDER THAN

2 RECEPTACLE SHAPE: 1 = FLAT 2 = CONVEX 3 = CONCAVE

4 HEAD ATTITUDE: 1 = VERTICAL (erect) 2 = ASCENDING 3 = HORIZONTAL 4 = DESCENDING

1 8 3 1 NO. OF SEEDS PER HEAD

SEEDS / HEAD LESS THAN

SEEDS / HEAD SAME AS

2 2 8 SEEDS / HEAD MORE THAN

COMPARISON VARIETY

COMPARISON VARIETY

SEEDS

3 OUTER PERICARP: 1 = CLEAR 2 = STRIPED BLACK 3 = NEARLY SOLID BLACK

1 MIDDLE PERICARP: 1 = WHITE 2 = SOLID PURPLE

1 INNER PERICARP (seed coat): 1 = NO COLOR 2 = BROWNISH BLACK

5 STRIPES: 1 = ABSENT 2 = EVEN BLACK & WHITE STRIPES 3 = BROAD BLACK & NARROW WHITE

4 = BLACK WITH NARROW DARK-GRAY STRIPING 5 = OTHER Broad Grey & Narrow White

1 MOTTLING: 1 = ABSENT 2 = PRESENT

2 SHAPE: 1 = OVATE 2 = OBOVATE (shield) 3 = NARROWLY OBOVATE 4 = OBLONG 5 = ELLIPTIC

2 SHAPE (cross-section): 1 = NOT CURVED 2 = CURVED

1 7 0 MM. LENGTH

2 4 0 GM. / 100 SEED

MM. SHORTER THAN

GM. LIGHTER THAN

SAME AS

SAME AS

0 5 0 MM. LONGER THAN

1 7 5 GM. HEAVIER THAN

9 6 4 % HELD ON 7.9 MM. (20/64) ROUND-HOLE SCREEN

% LESS THAN

SAME AS

7 6 0 % MORE THAN

COMPARISON VARIETY

COMPARISON VARIETY

65 F-1 7900022

B. DISEASE AND INSECTS (0 = Not tested, 1 = Susceptible, 2 = Resistant):

☐ RUST (*Puccinia helianthi*)

GIVE RACES: _____

☐ VERTICILLIUM WILT (*Verticillium dahliae*)

☐ DOWNY MILDEW (*Plasmopara halstedii*)

☐ WHITE BLISTER RUST (*Albugo tragopogii*)

☐ BROOM RAPE (*Orobanche cannis*)

GIVE RACES: _____

☐ EUROPEAN SUNFLOWER MOTH (*H. nebulosa*)

☐ OTHER (specify) _____

☐ SCLEROTINIA WILT (*Sclerotinia sclerotiorum*)

☐ LEAF MOTTLE (*V. albo-atrum*)

☐ GRAY-MOLD BLIGHT, BUD ROT (*Botrytis cinerea*)

☐ CHARCOAL ROT, STEM ROT (*Macrophomina phaseolina*)

☐ SUNFLOWER MOTH, N. AMERICAN HEAD MOTH
(*Homoeosoma electellum*)

☐ OTHER (specify) _____

☐ OTHER (specify) _____

C. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY. For the following characteristics

1 = Submitted variety is less, lighter or inferior than comparison variety 2 = Same as 3 = More than, darker, or superior

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Resistance	Black Manchurian	2	Leaf attitude	Black Manchurian	2
Resistance	Black Manchurian	2	Head attitude	Black Manchurian	2
Stem strength	Black Manchurian	2	Ray flower color	Black Manchurian	2
Branching	Non - Branching	2	Seed shape		2
Seed color	Arrowhead	3	Seed color	Black Manchurian	2
Seed shape	Arrowhead	2	Seed striping pattern	Black Manchurian	2
Seed yield	Black Manchurian	2	Seed yield	Black Manchurian	3

D. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY*. Not analyzed (Confectionary Use Only)

VARIETY	HULL (%)	PROTEIN (%)	OIL (%)	IODINE NO.	FATTY ACIDS	
					OLEIC (%)	LINOLEIC (%)
Submitted						
Similar						
Another						

* Hull, protein and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil

E. COMMENTS